

Digital Satellite Receiver

User's Manual

**GLOBO 7010CR
OPTICUM 7000CR
OPTICUM 7100CR
OPTICUM 4000TS
OPTICUM 4100TS
OPTICUM 4000TSCR
OPTICUM 4100TSCR**

CONTENTS

1. SAFETY	3
2. ENVIRONMENT PROTECTION	3
INFORMATION ON DISPOSAL FOR USERS (PRIVATE HOUSEHOLDS) IN THE EUROPEAN UNION	4
DECLARATION OF CONFORMITY	4
3. REMOTE CONTROL	5
4. SUPPORT & COPYRIGHT	6
5. ACCESSORIES	6
6. FRONT PANEL	7
7. REAR PANEL	7
8. CONNECTING YOUR SYSTEM	8
HOW TO CONNECT YOUR STB TO VARIOUS SYSTEMS	8
9. GETTING STARTED	9
EASY INSTALL	9
BOX SETTING	9
LANGUAGE	9
TIME SETTING	9
PARENTAL CONTROL	9
INSTALL SETTING	9
INSTALL YOUR DISH	9
AUTOMATIC INSTALL SATELLITE AND SEARCH CHANNEL	10
MANUALLY INSTALL SATELLITE AND SEARCH CHANNEL	10
10. MENU OPERATIONS	11
SERVICES	11
ORGANIZING SERVICES	11
ORGANIZING FAVOURITES	11
11. INSTALLATION	13
SATELLITE INSTALLATION	13
MANUAL INSTALLATION	13
MAIN WINDOW	13
EDIT SATELLITE	14
DISEQC1.2	15
TERRESTRIAL INSTALLATION (OPTIONAL)	17
AUTO SCAN	17
MANUAL SCAN	17
ANT CONFIG	17
CA SETTINGS (OPTIONAL)	18
FACTORY DEFAULT	18
FACTORY DEFAULT	18
FACTORY RESET	18
12. PREFERENCE	20
LANGUAGE	20
PARENTAL CONTROL	20
TIME SETTING	20
Automatic Update	20
Current Date & Time	20
GMT Offset	20
Daylight Time	21
Wake Up	21
Wake Up Time	21

Sleep	21
Sleep Time	21
A/V CONTROL.....	21
TV-SCART	21
VCR-SCART	21
Screen Ratio.....	21
TV Standard.....	21
Video Brightness.....	21
Video Contrast.....	21
Video Saturation	21
UHF SETTING	21
MISCELLANEOUS SETTINGS	22
13. SYSTEM.....	23
SYSTEM INFORMATION	23
UPGRADE RS232.....	23
SOKOBAN	24
14. TROUBLE SHOOTING	25
Symptom.....	25
15. SPECIFICATIONS.....	26
SATELLITE SPECIFICATION	26
A/V MODE	26
MICROPROCESSOR & MEMORIES.....	26
POWER & ENVIRONMENT CONDITION	26
PHYSICAL SPECIFICATION.....	26
CONNECTION.....	26

1. SAFETY

This STB has been manufactured to satisfy the international safety standards. Please read the following safety precautions carefully.

MAINS SUPPLY: 100 - 250V AC 50/60Hz

OVERLOADING: Do not overload wall outlet, extension cord or adapter as this may result in fire or electric shock.

LIQUIDS: Keep liquids away from the STB. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

CLEANING: Disconnect the STB from the wall outlet before cleaning .Use a light damp cloth (no solvents) to dust the STB.

VENTILATION: The slots on top of the STB must be left uncovered to allow proper airflow to the unit. Do not stand the STB on soft furnishings or carpets. Do not expose the STB to direct sunlight or do not place it near a heater. Do not stack electronic equipments on top of the STB.

ATTACHMENTS: Do not use any attachments that are not recommended as these may cause hazard or damage the STB.

CONNECTION TO THE SATELLITE DISH LNB: Disconnect the STB from the mains before connecting or disconnecting the cable from the satellite dish.
FAILURE TO DO SO CAN DAMAGE THE LNB.

CONNECTION TO THE TV: Disconnect the STB from the mains before connecting or disconnecting the cable from the satellite dish.
FAILURE TO DO SO CAN DAMAGE THE TV.

EARTHING: The LNB cable MUST BE EARTHED to the system earth for the satellite dish.

LOCATION: Place the STB indoor in order not to expose to lightening, rain or sunlight.

2. Environment protection



Attention!

Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

Information on Disposal for Users (private households) in the European Union

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one. *) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

Information on Disposal for Business Users

In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your GLOBO POLSKA dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities,

In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

DECLARATION OF CONFORMITY

The manufacturer herewith declares the conformity of that product with the following directives and standards:

Low Voltage Directive 73/23/EC

EN 60065:2002

EMC Directive 89/336/EC:

EN 55013:2001+A1:2003

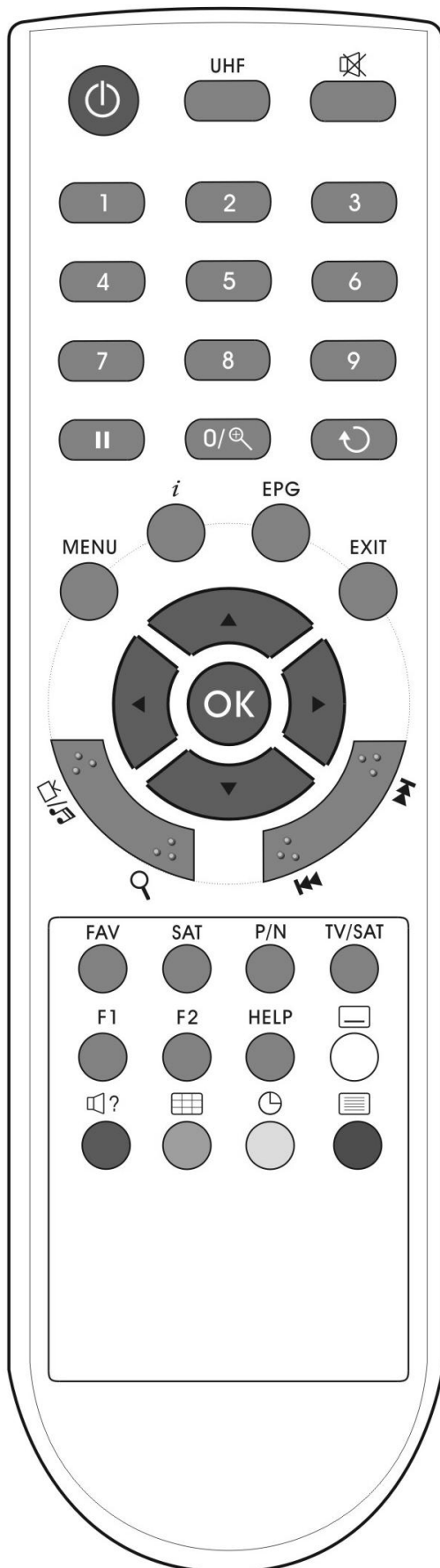
EN 55020:2002

EN 61000-3-2:2000

EN 61000-3-3 :1995 + A1:2001

Model: Digital Satellite Receiver DVB-S

3. Remote Control



POWER Button

Switch the STB between Operation and Standby mode.

UHF Button

Alter the UHF setting.

MUTE Button

Enable / Disable the Audio.

Numeric Buttons

Select the TV or Radio services and menu options.

"0/🔍" 0&ZOOM Button

After other Numeric buttons, it's used for 0 button. Other ways it's used to enable the zoom function.

"⏸" PAUSE Button

Pause or play video.

"↶" PRE Button

Select the previously viewed service.
Return to the previous menu.

"i" INFO Button

Display the service information box on the Screen.
Display the extended event or service information in menu.

EPG Button

Display EPG menu.

MENU Button

Display the Main Menu on the screen.
Return to the previous menu.

EXIT Button

Cancel the user selection and return to the Screen.

LEFT/V- , RIGHT/V+ Buttons

Adjust the volume (Increase / Decrease).
Change the value of the selected item in menu.
Move cursor left or right in the menu.

UP/CH+ , DOWN/CH- Buttons

Service up or down through the available services.
Move the selection bar in menu.

OK Button

Display Service List on screen.
Select an item in menu.

"📺🎵" TV/RADIO Button

Select the TV/Radio mode.

"🔍" FIND Button

Find service by name in Service List, Organizing Services, Organizing Favourites and EPG menu.

P-/P+ Buttons

Press to move up or down pages on the menus.

FAV Button

Display Organizing Favourites menu.

10. SAT Button

Display Organizing Satellites menu.

P/N Button

Switch the TV Standard on the Screen.

TV/SAT Button

Switch the TV or AV mode on the Screen.

F1 Button

Enter Organizing Services menu direct on the Screen.

F2 Button

Enter Manual Installation menu direct on the Screen.

“  ” **WHITE(SUBTITLE) Button**

Setup the Subtitle and watch on the Screen.

“  ” **RED(AUDIO) Button**

Perform RED button function in menu.

Select Sound Track and Multilingual on the Screen.

GREEN(Multi-picture) Button

Perform GREEN button function in menu.

Display Multi-Picture menu on the Screen.

YELLOW(SLEEP) Button

Perform YELLOW button function in menu.

Set Standby time on the Screen .

BLUE(TELETEXT) Button

Perform BLUE button function in menu.

Setup the Teletext and watch on the Screen.

4. Support & Copyright

To better satisfy our customers, we give our best to each product and service. Also we support our customer through our local sales, service network and electronic server system of us.

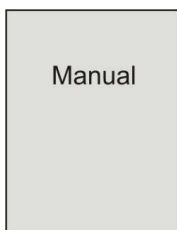
Moreover, we maintain very close working relationships with our customers. We take a highly disciplined engineering approach to product design, manufacture, testing, acceptance and to technical and maintenance support.

We conduct comprehensive testing of the units, provide complete documentation support and consistently deliver the highest quality products on time, every time. We supports you via its homepage with useful information and new software.

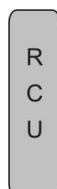
To provide you the convenience of usage, We has the right to make changes and improvements to any of the products described in this manual and the manual of the products without notice.

5. Accessories

Check the following accessories when you open the box



User's Manual



Remoter Control Unit

The device, packaging material and batteries must never be disposed of with household.

Please obtain appropriate information about regulations in your community, and dispose of all in accordance with regulations at the separate locations provided.

6. Front panel

POWER KEY: To switch the receiver power on/stand by

v, ^ KEY : To change channels, or to move cursor up or down in the menu

POWER Led: Lights up while the receiver is power on

Remote Sensor: Detects infrared signal from remote control unit

Display(4-Digit/7-Segment): Indicates operating status of receiver

Signal Led: When receiving signal is strong, the signal led is lighted.

VOL<, > KEY (optional): To adjust volume level, or to move cursor left or right in the menu

MENU KEY (optional): To enter into the main menu

OK KEY (optional): To see TV/Radio channel list, or to confirm in the menu

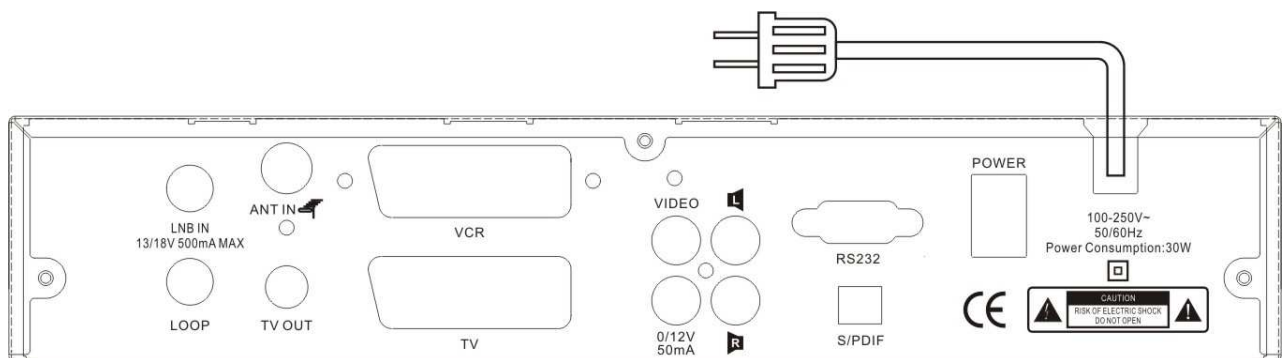
Exit (optional): Cancel the user selection and return to the viewing mode from a menu.

7. Rear Panel

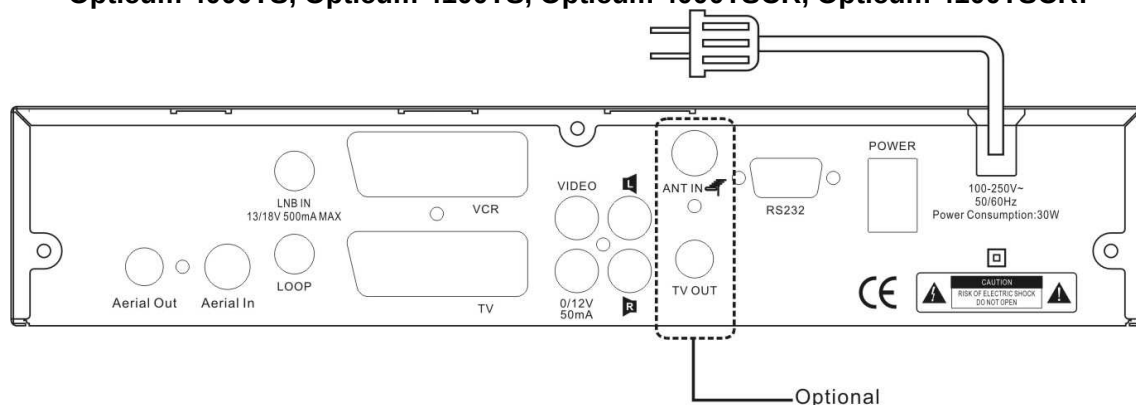
Please refer to the diagram above for all possible connections of your receiver

Do not connect the unit to the mains socket until all other connections have been made and checked.

GLOBO 7010CR, OPTICUM 7000CR, OPTICUM 7100CR:



Opticum 4000TS, Opticum 4100TS, Opticum 4000TSCR, Opticum 4100TSCR:



AERIAL OUT (optional): This enables the connection of another receiver.

AERIAL IN (optional): This port is to connect the coaxial cable from terrestrial antenna.

LOOP OUT: This enables the connection of another receiver.

13/18V 500mA MAX LNB IN: This port is to connect the coaxial cable from LNB of your Dish.

VIDEO: This RCA connector is used to connect any external video.

0-12V: This is used to Connect 12V to an external 0V/12V switch.

AUDIO R/L: These RCA connectors are used to connect any external audio amp or system.

RS 232C SERIAL PORT: This is used to connect your receiver to a computer through

a serial cable.

TV: This is used to connect your TV through SCART cable.

SPDIF: Digital Audio interface, connect to AV amplifier SPDIF (optical) input terminal.

ANT IN (optional): Connect to Analog TV antenna.

TV OUT (optional): This is used to connect your TV through RF cable.

8. Connecting Your System

How to connect your STB to various systems

There are several ways of connecting the STB to your TV, VCR and/or Hi-Fi SYSTEM. Consult your local supplier for assistance in setting-up your system that is best suited to your requirements.

Connect STB to a TV set

Connect your STB to a TV set with SCART, if your TV set is equipped for it. Alternatively you can use A/V, TV out (UHF) or S/Video jacks.

Connect STB to a VCR

Connect the SCART jack from the VCR to the back of your STB. Alternatively you can use A/V, TV out (UHF) or S/Video jacks.

Connect STB to a Hi-Fi System

Connect a RCA stereo cable from the AUDIO L/R jacks, S/PDIF on your STB to the LINE, AUX, SPARE or EXTRA input jacks on your Hi-Fi System.

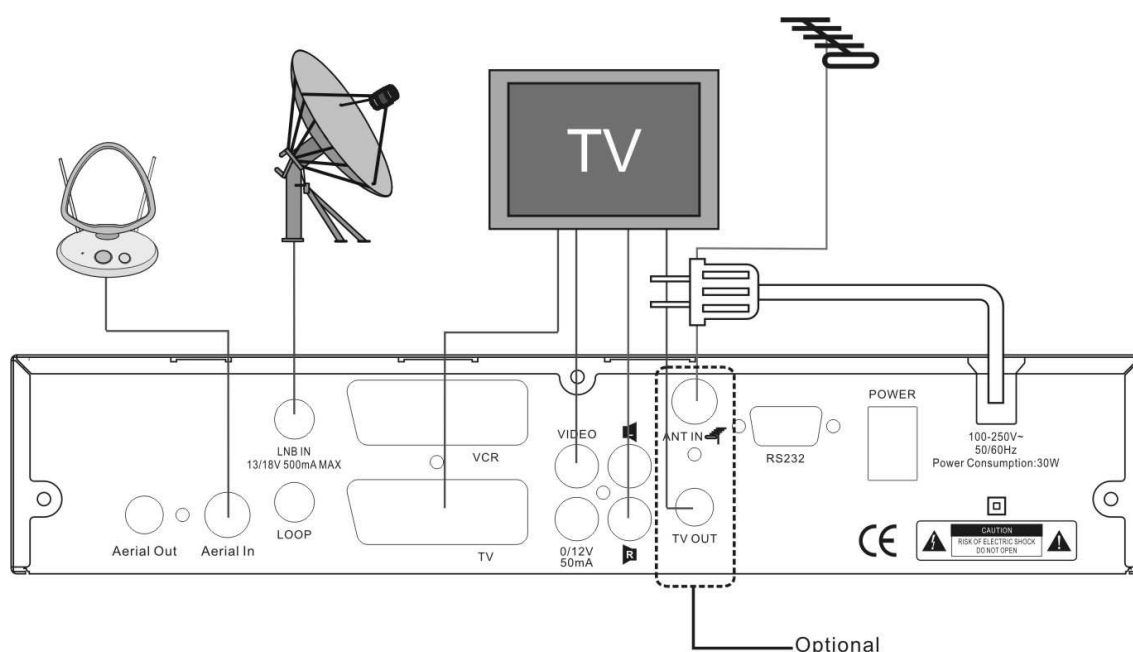
Connect STB to a Digital Audio System

If you have a DAC with S/PDIF coaxial cable input, you can connect the STB with it to enjoy higher quality sound. Connect S/PDIF coaxial cable to a digital amplifier.

Loop Through

If you have another analogue or digital STB and you wish to use the same LNB then you can connect it via the loop through. Connect one end of the coaxial cable to the Loop Through on the STB and connect the other end to the LNB IN on your second STB.

TV with Motorized System (DiSEqC 1.2)



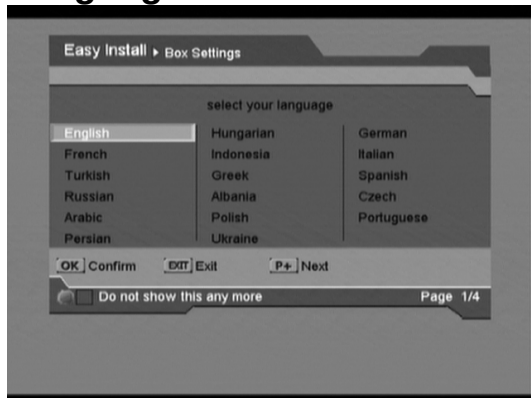
9. GETTING STARTED

Easy Install

Press the **POWER** button to operate the receiver from “Standby” mode. If you did not install it before, the “Easy Install” Menu will be displayed automatically to guide you to install your box and dish.

**Notice: There are two parts, Box Setting and Install Setting. Please follow the indication in this menu one step by one.*

Box Setting Language



Choose Menu Language. Go to next.

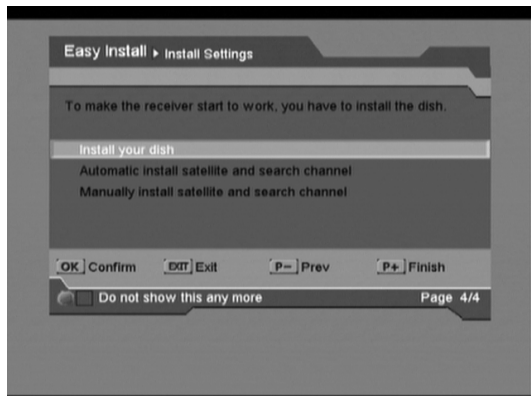
Time Setting

Set Current Time. Go to next.

Parental Control

Set Password, Receiver Lock and Censorship Classification. Go to next to enter in Install Setting.

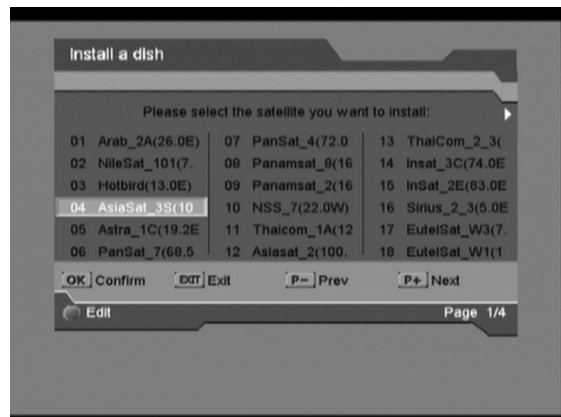
Install Setting



Choose

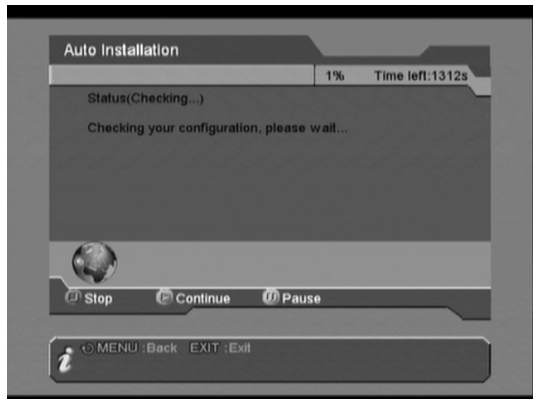
one from the following items: “Install your dish”, “Automatic install satellite and search channel” and “Manually install satellite and search channel”.

Install your dish



- Install one satellite, Press **RED** button to edit it. In edit menu you can check signal. This function is very useful for installing your dish. It will automatically calculate the elevation and azimuth for certain satellite according to the local longitude and latitude you entered. Set the longitude and latitude by pressing **0~9** and **LEFT /RIGHT** button, and you get the elevation and azimuth information from the menu. Then go to next.
- Adjust your dish depend on the intensity and quality. Press **RED** button to edit satellite as above, press **OK** button to select TP. Go to next.
- Adjust your dish depend on the SNR and BER. Press **RED** button to edit satellite as above, press **OK** button to select TP. Go to next.
- Choose one from the following items: “Install another satellite” and “Complete installing dish and search channels”. For “Install another satellite”, you need to install another satellite the above step by step. For “Complete installing dish and search channels”, you need to set the Scan Mode and Network, then press **OK** button to do scan.

Automatic install satellite and search channel



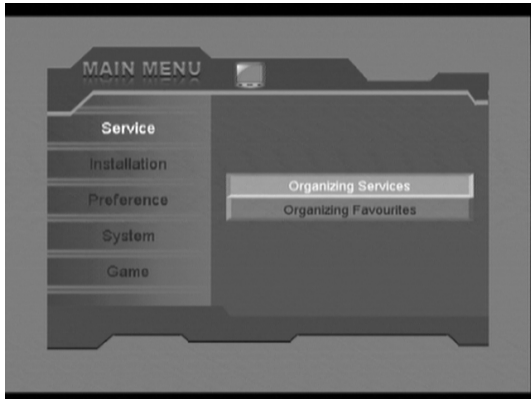
The receiver will detect your antenna and search available signals and download services for you automatically.

Manually install satellite and search channel

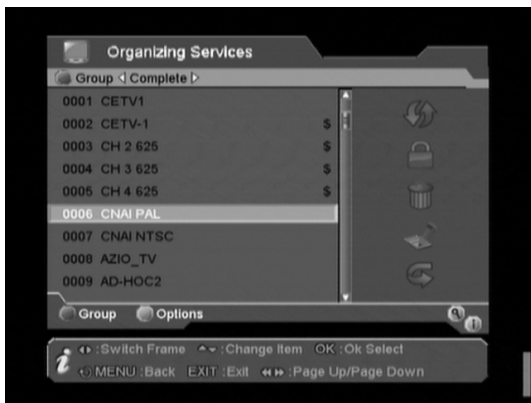
You need to choose your interested satellites and set right parameters for LNB Type, 22KHz Tone, 12V, DiSEqC1.0 or Motorized DiSEqC1.2 or USALS items, then press **RED** button to do scan to complete install. For more details, please check chapter "Installation" of "Menu Operations".

10. MENU OPERATIONS

Services



Organizing Services



The menu displays as the following:

- Service list, Group information
- Operating frame with Move, Lock, Delete, Rename, Skip functions

Operations:

LEFT/RIGHT button: switch frame from service list to operating frame or verse

RED button: enter "Group" menu to switch service group

GREEN button: enter "Options" menu for 4 shortcuts for choosing services:

Select All: select all services under current list

Unselect All: unselect all selected services

Select Others: select services except those been selected

Select by TP: select services belonging to certain transponder only

TV/RADIO button: switch from TV service list to the Radio service list or verse

FIND button: quickly find service by the name

UP/ DOWN, P+/P-, OK button: browse service list and select some

INFO button: check detail information of current service

Move: select one or more services and press **RIGHT** button to select **MOVE** icon. Press **UP/DOWN, P+/P-, 0~9** button to move the selected service to where you want to locate, then all the selected services will be reordered and move to the new location one by one.

Lock: select one or more services and press **RIGHT** button to select **LOCK** icon. The symbol **LOCK** will be displayed at the end of the service name, which means the service is locked and need to enter password to view.

Remove: select one or more services and press **RIGHT** button to select **REMOVE** icon. The selected services will be removed from the database forever.

Rename: select one or more services and press **RIGHT** button to select **RENAME** icon. "Rename" menu will be displayed, you can enter new name through keyboard submenu.

Skip: select one or more services and press **RIGHT** button to select **SKIP** icon. The symbol **SKIP** will be displayed at the end of the service name, which means the service will be skipped when you browse services without any menu by pressing **UP/DOWN** button.

Organizing Favourites



You can organize all 8 FAV group services in this menu.

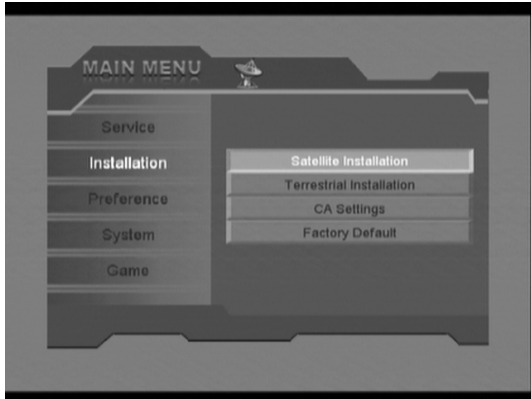
The menu displays as the following:

- Service list, Group information
- Operating frame with Move, Lock, Delete, Rename, Skip functions

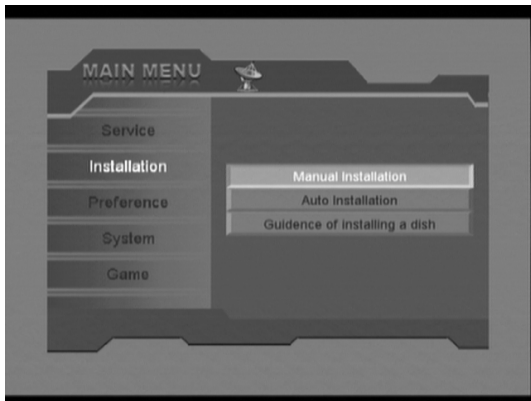
- FAV service list, FAV information
Operations:
LEFT/RIGHT button: switch frame between service list, operating frame, FAV service list
RED button: enter "Group" menu to switch service group
GREEN button: enter "Options" menu for 4 shortcuts for choosing services:
 -Select All: select all services under current list
 -Unselect All: unselect all selected services
 -Select Others: select services except those been selected
 -Select by TP: select services belonging to certain transponder only
FAV button: enter "FAV" menu to switch FAV group
TV/RADIO button: switch from TV service list to the Radio service list or verse
FIND button: quickly find service by the name (only available in service list)
UP/ DOWN, P+/P-, OK button: browse service list / FAV service list and select some
INFO button: check detail information of current service (only available in service list)
MOVE (only available for FAV service list): select one or more FAV services and press **LEFT** button to select **MOVE** icon. Press **UP/DOWN, P+/P-** button to move the selected service to where you want to locate, then all the selected services will be reordered and move to the new location in current FAV group service list one by one.
MOVE TO FAV GROUP:
select one or more services and press **RIGHT** button to select **RIGHT MOVE** icon. The selected services will be added to current FAV group.
REMOVE FROM FAV GROUP:
select one or more FAV services and press **LEFT** button to select **LEFT MOVE** icon. The selected services will be removed from current FAV group list, but still remain in database and belong to other FAV groups it was belonging to.
RENAME:
rename FAV group. Go to operating frame and

select **RENAME** icon. "Rename" menu will be displayed, you can enter new FAV name through keyboard submenu.

11. INSTALLATION



Satellite Installation



Manual Installation

“Manual Installation” menu is organized in the way for user to install & scan satellites /transponders easily. In all menus of “Manual Installation”, real-time signal level and quality (BER) is displayed all the time for more friendly setting.

There are three main submenus:

Main window



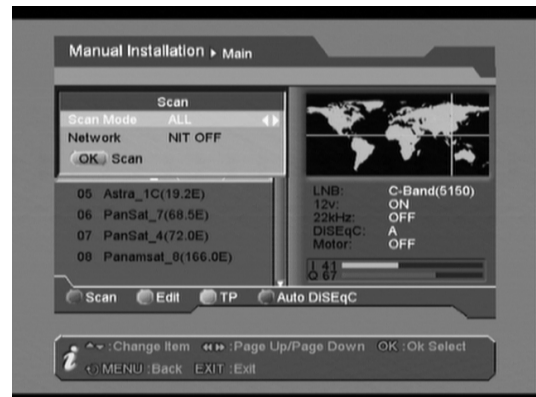
The

menu displays as the following:

- Satellite list
- Indication frame with Antenna, 12V, 22KHz, DiSEqC, Motor information for current satellite

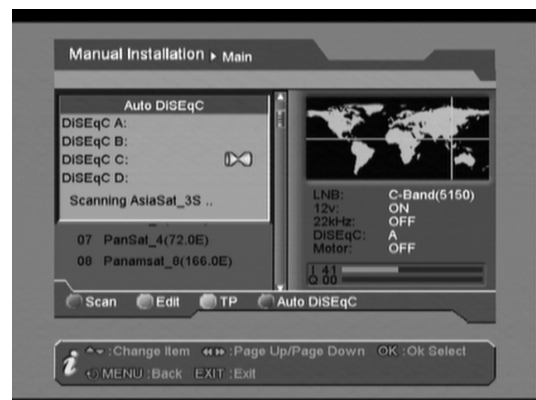
- A map for the location of satellite
- We supply the following functions:

A. Scan



1. Use **OK** button to select one or more satellites at one time, then press **RED** button, an “Scan” menu will be displayed for you to select Scan Mode (ALL, FTAL, FTA_TV, ALL_TV) and Network (NIT OFF, NIT ON) options by **LEFT/RIGHT** button.
2. Press **OK** button to start scan.
3. During scanning, you can use **RED** button to stop scan, use **YELLOW** button to pause scan and **GREEN** button to resume scanning.
4. When scanning finished, a message box will be displayed asking you whether to save the modification before exit. Press **YES** button to save and **NO** button to abort.

B. Auto DiSEqC



This function is very useful to easy installing your system without knowledge of what kind

of signal or LNB your receiver is connected to. Press **BLUE** button, it will automatically detect DiSEqC connecting and set the right configuration of LNB as well. In less than 1 minute, it will show you the connecting status, you just need to press **OK** button to scan the connected satellites if any.

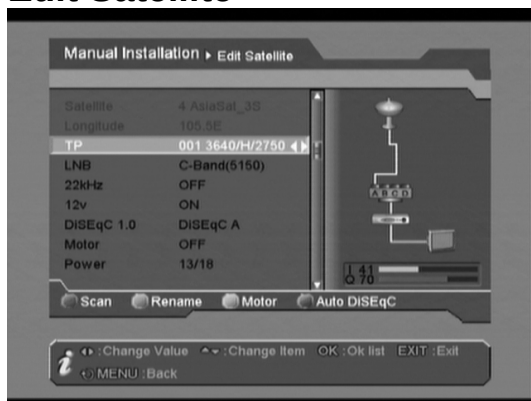
C. Edit

Press **GREEN** button to enter next main part: "Edit Satellite" menu.

D. TP

Press **YELLOW** button to enter next main part: "Transponder" menu.

Edit Satellite



The menu displays as the following:

- Satellite setup menu
- Indication picture for the connecting of antenna and DiSEqC switcher, Motorized system.

We supply the following functions:

1. Press **RED** button to scan certain satellite
2. Press **GREEN** button to enter keyboard menu to rename certain satellite
3. Press **BLUE** button to enter "Auto DiSEqC" menu to check your dish connecting
4. Setup satellite's parameters as the following:
 - **Satellite:** Remand certain satellite by using **GREEN** button;
 - **Longitude:** The angle of satellite's longitude is can not be changed;
 - **TP:** Select the TP of certain satellite. Press **OK** button to select one from the list or press **LEFT/RIGHT** button to switch one by one
 - **LNB:** Select the LNB (value & type) on

antenna. Press **OK** button to select one from the list or press **LEFT/RIGHT** button to switch one by one

Notice: When you select Uni. (9750 /10600), both 9750 and 10600MHz are supported at the same time, the 22KHz Tone setting is unnecessary(disabled), because high or low band is selected by 22KHz automatically

- **22KHz:** Press **OK** or **LEFT/RIGHT** to turn 22KHz Tone switcher on or off.
Notice: When you use a dual LNB or two antennas connected to a 22KHz Tone switch box, make 22KHz Tone switch on or off to select LNB or antenna.
- **12V:** Press **OK** or **LEFT/RIGHT** to turn 12V switcher on or off
- **DiSEqC 1.0/1.1:** According to the option and position of DiSEqC switcher, select OFF(disabled), DiSEqC A to D by **OK** or **LEFT/RIGHT** button, it supports up to 16 antennas connected to the receiver at the same time.
- **Motor:** Press **OK** or **LEFT/RIGHT** to set motor on or off; press **YELLOW** button to enter "Motor" menu

Motor Menu:

a) Motor Type

Press **LEFT/RIGHT** button, you can select DiSEqC1.2 or USALS (DiSEqC1.3), according to the motorized DiSEqC system you are using.

b) Satellite

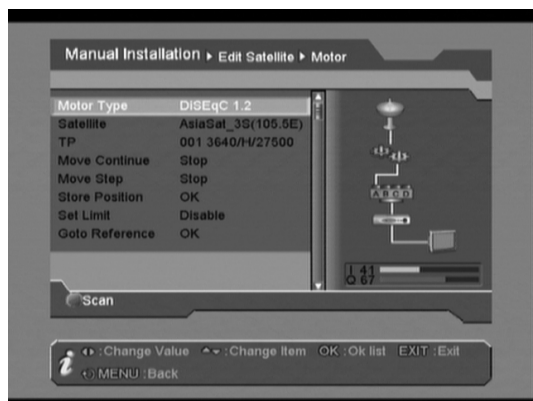
Select a satellite name that can be used to identify a motor position by pressing **OK** or **LEFT/RIGHT** button. The longitude of current satellite will be shown too.

c) TP

Press **OK** or **LEFT/RIGHT** button, you can select one transponder from current transponder list to locate the signal.

d) Setup Motor

DiSEqC1.2



a. Move Continuously

Press **LEFT/RIGHT** button on this item, you can continuously drive the motor to West (**LEFT**) or East (**RIGHT**). It will stop under three circumstances: it found signal strong enough, it meets the limitation you set (see "Set Limit" for more details), or you release the **LEFT/RIGHT** button. If it found signal and stop, you can adjust the position by drive the motor step by step (see "Move Step" for more details) to get best signal and then store the best position (see "Store Position" for more details).

b. Move Step

Press **LEFT/RIGHT** button on this item, you can drive the motor to West (**LEFT**) or East (**RIGHT**) step by step (the step is set to 1 by default).

c. Store Position

Press **OK** button on this item to store the current position of the motor for the selected satellite.

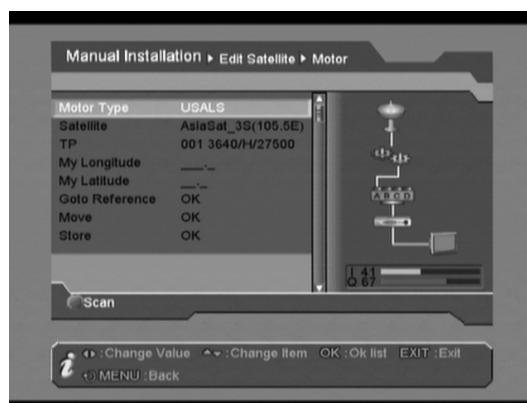
d. Set Limit

Press **LEFT/RIGHT** button to change function to "West"(set west limitation), "East"(set east limitation) or "Disable"(remove all limitations). Press **OK** button to execute the setting.

e. Goto Reference

Press **OK** button to drive the motor going to reference position.

After you install your motorized DiSEqC system well and got signal strong enough, press **RED** button to scan it.



USALS is very convenient motorized DiSEqC system that supports DiSEqC1.3 command and also can get the satellite position automatically if you know your geographical location. Basically, the listed satellites have its Longitude and therefore the angle of the satellite can be calculated without problem. If you have USALS motorized system, then you can use the USALS as followings.

a. My Longitude

It means the longitude of your location. You can set the angle "East" or "West" will be selected by **LEFT/RIGHT** button.

b. My Latitude

It means the latitude of your location. You can set the angle by **0-9** buttons, "South" or "North" will be selected by **LEFT/RIGHT** button.

c. Goto Reference

Press **OK** button to go to the reference position.

d. Move

Press **OK** button to drive the motor to the exact position corresponding to the satellite position you are entered.

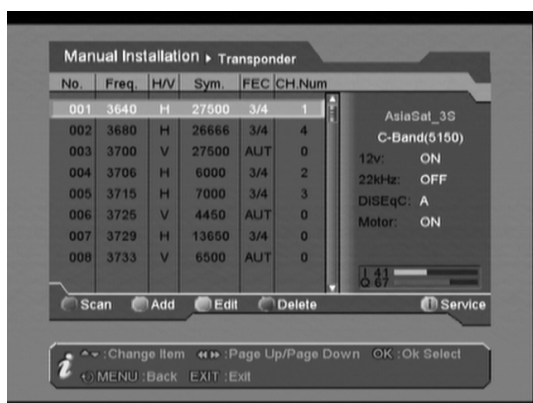
e. Store

Press **OK** button to store current position of the motor for the selected satellite

- **Power:** Press **OK** or **LEFT/RIGHT** button to set LNB power as OFF, 13, 18, 13/18, 14, 19, 14/19.

Transponder

USALS



The menu displays as the following:

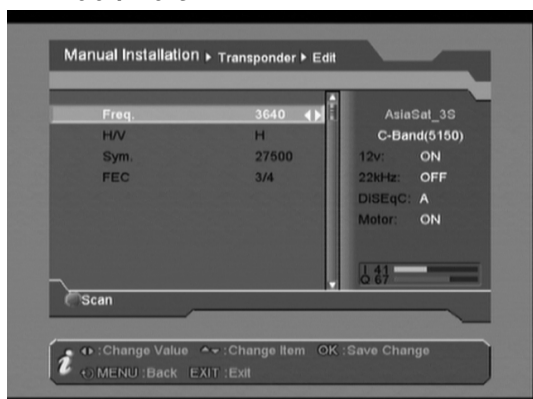
- Transponder list
- Indication frame for the information of current satellite

We supply the following functions:

A. Scan

1. You can use **UP/DOWN**, **P+/P-** buttons to browse the transponder list and press **OK** button to select one or more transponders at one time, then press **RED** button. An "Scan Option" menu will be displayed for you to select Scan Mode (FTA, ALL, FTA_TV, ALL_TV) and Network (NIT OFF, NIT ON) options by **LEFT/RIGHT** button. Be noticed that if you select only one transponder, you are able to scan certain service only by putting certain VidPID, AudPID and PcrPID by manual.
2. Press **OK** button to scan selected transponder(s).

B. Add / Edit



Press **GREEN** or **YELLOW** button, you can edit the parameters.

Freq.: Use **0-9** buttons or **LEFT/RIGHT** button to enter new frequency.

H/V: Use the **LEFT/RIGHT** button to select the polarization (H, V).

H(Horizontal): 18V/19V is output through LNB cable

V(Vertical): 13V/14V is output through LNB cable

Sym.: Use **0-9** buttons or **LEFT/RIGHT** button to enter new symbol rate.

FEC: Use **LEFT/RIGHT** button to select the Forward Error Correction (1/2, 2/3, 3/4, 5/6 or 7/8) if you are sure about the value, otherwise please select **AUTO**, software will automatically detect it for you.

C. Delete

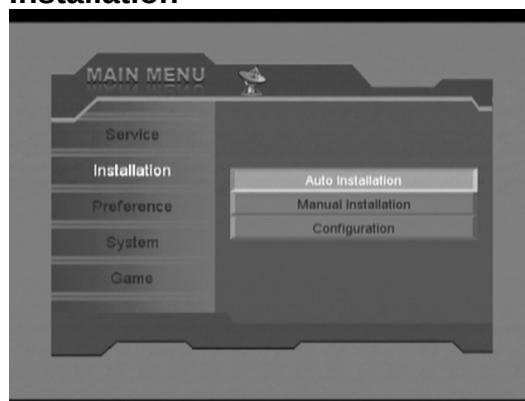
Select one or more transponders you don't need any more by pressing **OK** button. Then press **BLUE** button to delete them. Be noticed that all services belonging to the deleted transponder will be deleted too.

D. Services



Press **INFO** button, you can check services (TV and Radio) belonging to current transponder if any.

Auto Installation



"Auto Installation" is a very new and convenient function. It will automatically detect

all dishes connecting to this machine and scan the available services belonging to the satellite matched according to satellites and transponders data in current database. You don't have to input any parameter of your antenna settings. Just press **OK** button to enter this "Auto Installation" menu then it starts scanning and shows you the result at the end of scanning. And it is very fast.

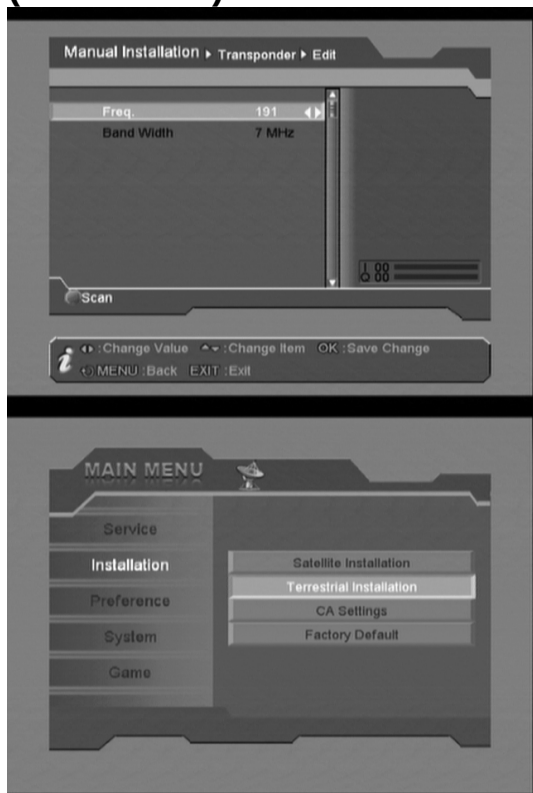
Auto Update

"Auto Update" is also a very new and fantastic function. It will automatically download new services, transponders belonging to the matched satellites connecting to this machine. You just press **OK** button to enter this "Auto Update" menu then it starts scanning and shows you the result at the end of scanning. But it will take longer time than "Auto Installation".

Guidence of installing a dish

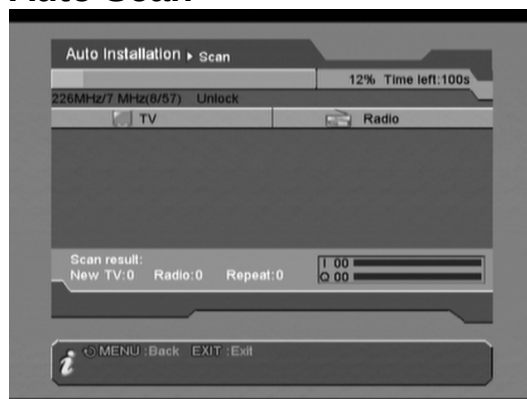
This is the same as the "Install your dish" part in "Easy Install".

Terrestrial Installation (OPTIONAL)



Select installation under the Main Menu with Left and Right key, then press OK to confirm.

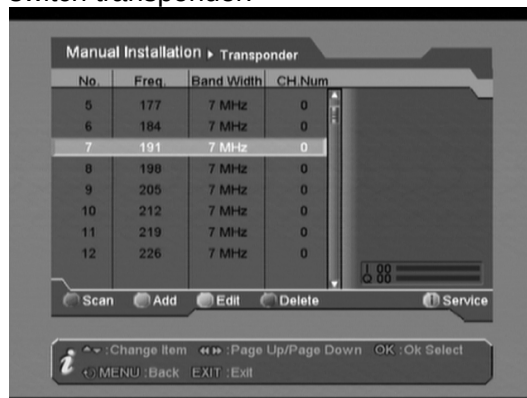
Auto Scan



In this menu, the receiver will scan the all transponders installed automatically.

Manual Scan

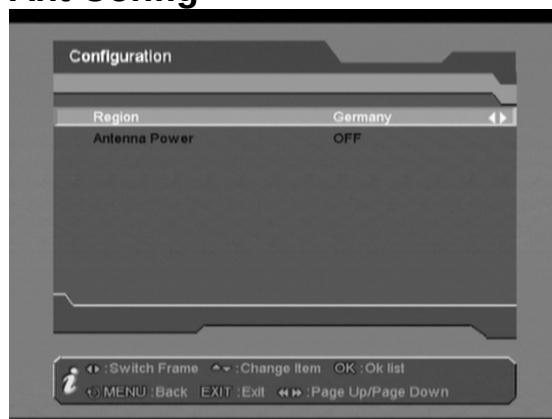
In this menu, you can use **UP/DOWN** key to switch transponder.



Press **YELLOW** key to edit, add or delete once a transponder in the list.

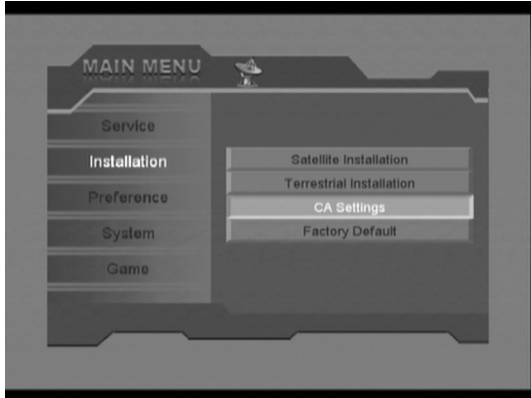
Press **RED** key to scan all selected transponders in the list.

Ant Config



In this menu, you can press **LEFT/RIGHT** key to select the Region and set the “Antenna Power” on or off.

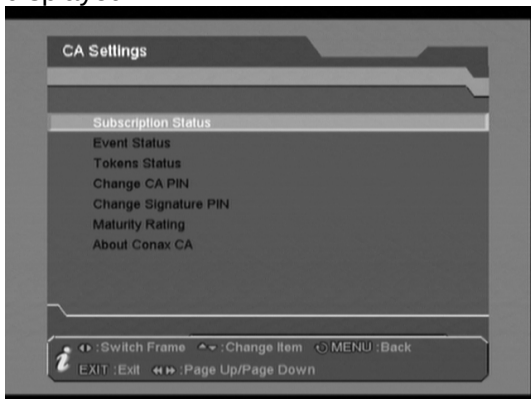
CA Settings (OPTIONAL)



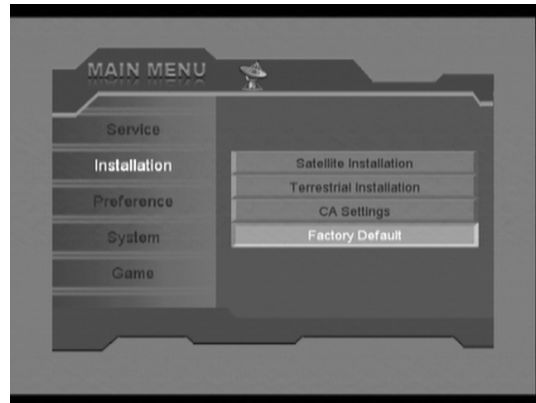
Receiver has build in smart card module with CONAX system. By using cards in this system provided by operators, it is possible to watch many scrambled channels coded in this system. This menu shows detailed information about card inserted into card reader module. It allows to check all available information about card inserted according to help messages visible on the bottom of the screen.

NOTE:

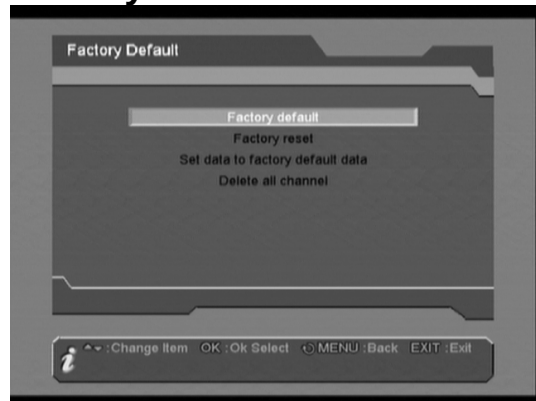
All information showed in this menu and submenu are coming from inserted card. In case if anything is wrong, it could be card problem. After inserting the card correctly at any time, a message-box will show on the screen with message about detecting the card, in “Card Info” menu all available information will be displayed.



Factory Default



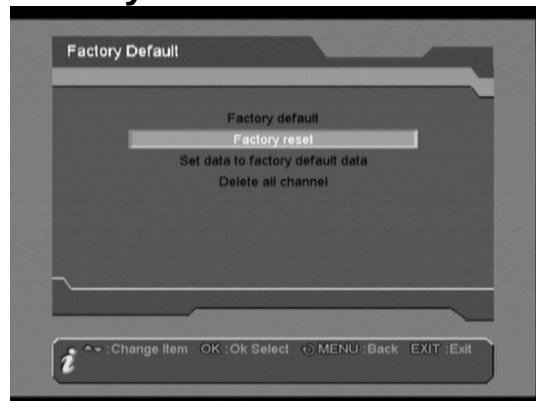
Factory default



Press **OK** button to load default data to current database.

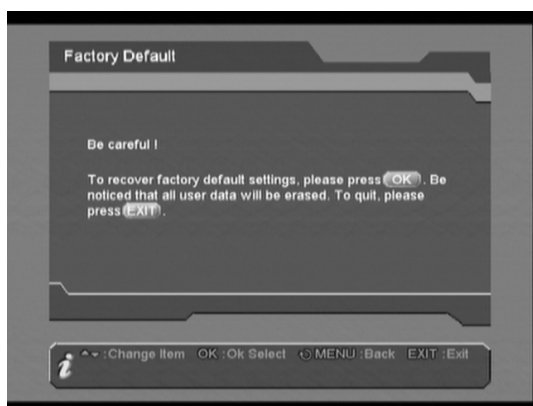
Press **MENU/EXIT** button to abort the operation.

Factory reset



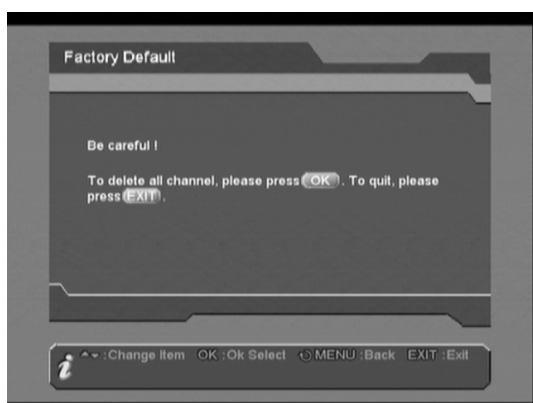
Press **OK** button to do factory reset, which will recover all database to the same as factory default settings, then it will automatically go to “Easy Install” menu to re-install your system. Press **MENU/EXIT** button to abort the operation.

Set data to factory default data

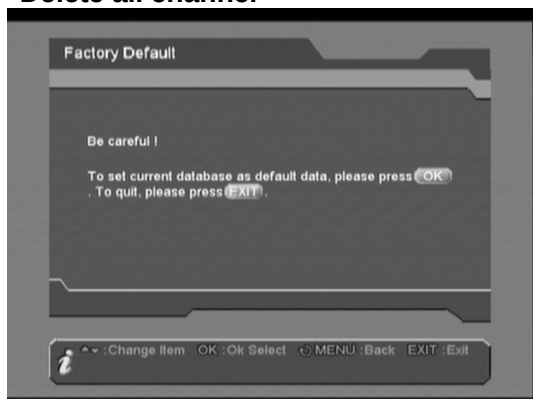


Press **OK** button to set current database as default data.

Press **MENU/EXIT** button to abort the operation.



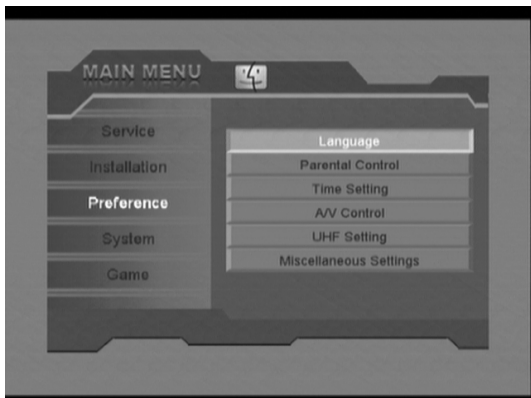
Delete all channel



Press **OK** button to delete all channels.

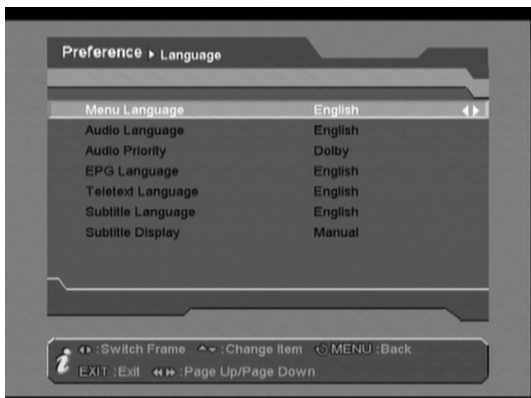
Press **MENU/EXIT** button to abort the operation.

12. Preference



The “Preference” menu supports the receiver internal settings according to the connection of the receiver and external units. This menu includes “Language”, “Parental Control”, “Time Setting”, “A/V Control”, “UHF Setting” and “Miscellaneous Settings”.

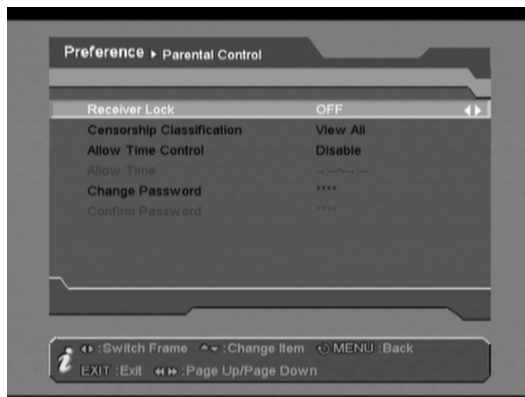
Language



There are different kinds of languages, for menu, for audio, for EPG, for Teletext or Subtitle. You can use **UP/DOWN** button to select one of them and then press **OK** button to enter submenu. Use **LEFT/RIGHT** button to switch language one by one or press **OK** button to select one from the language list. The details are as the following:

Menu Language
Audio Language
Audio Priority
EPG Language
Teletext Language
Subtitle Language
Subtitle Display

Parental Control



Set “Parental Control” options to protect children watching programs. Please use **UP/DOWN** button to select one of the following items and press **LEFT/RIGHT** or **OK** button to set certain value.

Details are as the following:

Receiver Lock: The default PIN code is 0000.

Censorship Classification
Allow Time Control
Change Password

Time Setting

You can set system time, sleeping time and wakeup time in this menu. Furthermore, you can set first view service in wakeup time mode. When a VCR is connected, recording can be automatically validated/invalidated according to wakeup/sleeping time setting. Please use **UP/DOWN** button to select one of the following items and press **LEFT/RIGHT** or **OK** button to set certain value.

Details are as the following:

Automatic Update

Set “Automatic Update” option to “ON” means system time is based on TDT (Time and Data Table) from the stream of the current service, and runs with system clock. Set “Automatic Update” option to “OFF” means system time is set by manual and runs with system clock.

Current Date & Time

Only when you set “Automatic Update” option to “OFF”, “Current Date & Time” is active for you to enter local date & time by **LEFT/RIGHT** or **0~9** buttons.

GMT Offset

GMT is referred to the standard time of Greenwich. Please set the Offset according to

your country's time zone. The step is half an hour.

Daylight Time

Set "Daylight Time" option to "ON" means the summer time is on thus local time is one hour late than normal.

Wake Up

If you set "Wake Up" option to "Enable", you activate a wakeup timer. The service list will be displayed for you to set first view service using **UP/DOWN** button.

Wake Up Time

Only if you set "Wake Up" option to "Enable", "Wake Up Time" is active for you to set wakeup time using **UP/DOWN** button.

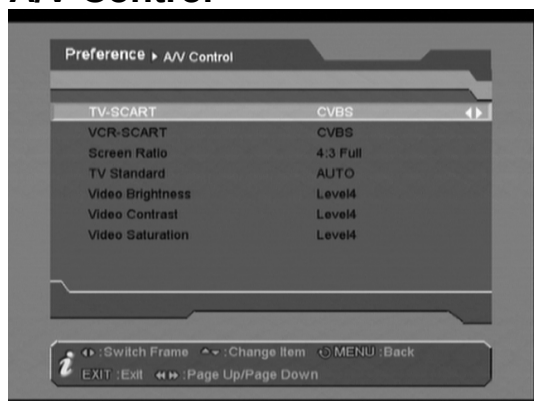
Sleep

If you set "Sleep" option to "Enable", you activate a sleeping timer.

Sleep Time

Only if you set "Sleep" option to "Enable", "Sleep Time" is active for you to set sleeping time using **UP/DOWN** button.

A/V Control



You

can set SCART, screen ratio and TV format, Video picture parameters in this menu according to the TV set connected to the receiver. Please use **UP/DOWN** button to select one of the following items and press **LEFT/RIGHT** or **OK** button to set certain value. Details are as the following:

TV-SCART

Set the video output mode for the TV SCART (RGB, CVBS).

VCR-SCART

Set the video output mode for the VCR SCART (CVBS only).

Screen Ratio

Set the screen aspect ratio of the TV set connected to this receiver (Auto, 16:9 Full, 4:3 Full, 16:9 Letter Box or 4:3 Letter Box).

TV Standard

Set the format of the TV set connected to this receiver (AUTO, PAL, NTSC, or SECAM). In AUTO mode, the receiver set the format to the one same as service viewed before enter this menu, and automatically follows current service's format whenever current service's stream format changes.

Video Brightness

Set the video brightness for receiver output. It ranges from 1 to 8, and is independent of the TV set connected to the receiver.

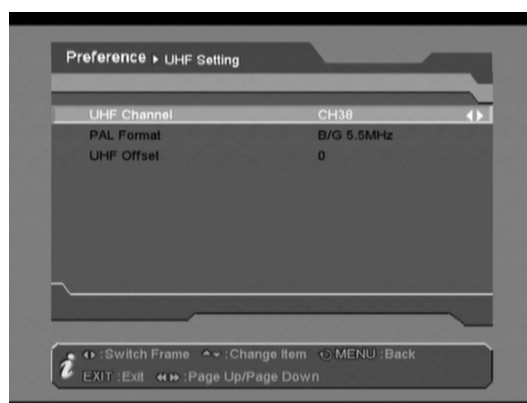
Video Contrast

Set the video contrast for receiver output. It ranges from 1 to 8, and is independent of the TV set connected to the receiver.

Video Saturation

Set the video saturation for receiver output. It ranges from 1 to 8, and is independent of the TV set connected to the receiver.

UHF Setting



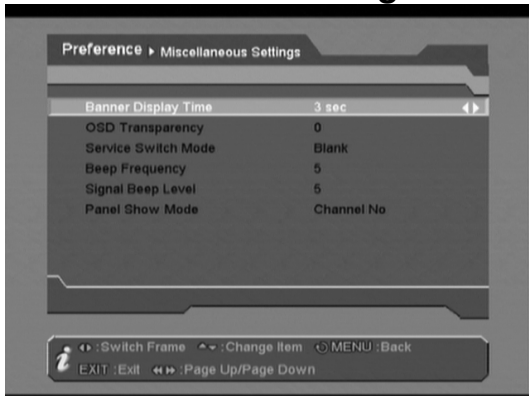
You can set UHF parameters in this menu according to the TV set connected to the receiver. Please use **UP/DOWN** button to select one of the following items and press **LEFT/RIGHT** or **OK** button to set certain value.

Details are as the following:

UHF Channel

PAL Format
UHF Offset

Miscellaneous Settings

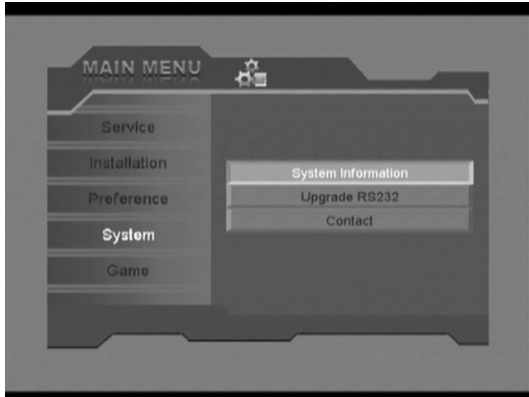


You can set other miscellaneous settings in this menu by using **UP/DOWN** button to select one of the following items and press **LEFT/RIGHT** or **OK** button to set certain value.

Details are as the following :

Banner Display Time
OSD Transparency
Service Switch Mode
Beep Frequency
Signal Beep Level

13. System



You can check information about your receiver or upgrade the firmware or data of the receiver through this menu.

System Information

We provide you production information about the receiver, such as “Model ID”, “Software Version”, “Hardware Version”, “Loader Version”, “Latest Update” and “Manufacture” information as well.

Upgrade RS232

We provide you two solutions to upgrade the receiver via RS232 port.

A. Upgrade through this menu.

1. Connect your receiver (as slaver) to PC or another receiver (as master) via cross RS232 cable. (The PC should have installed Upgrade.exe together with current software or data file (*.dld).) Turn on the master.

2. Enter this menu, and select one of the following options, you can download new software, data or all (software and data together) from the master to your receiver.

B. Upgrade automatically once turn it on

1. Do the same as 1 in A.
2. Turn on the slaver, the slaver will be upgraded all automatically.

Upgrade Software

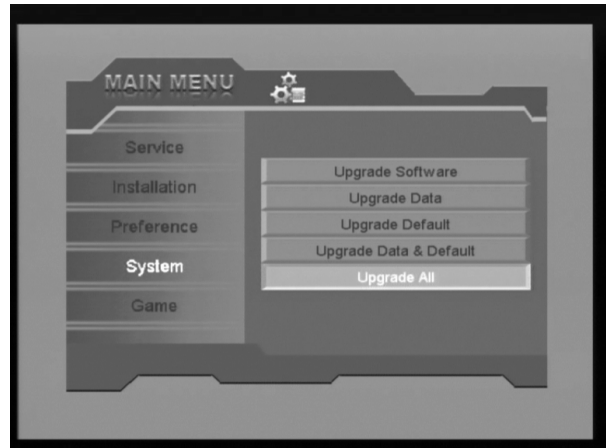
Upgrade Data

Upgrade Default

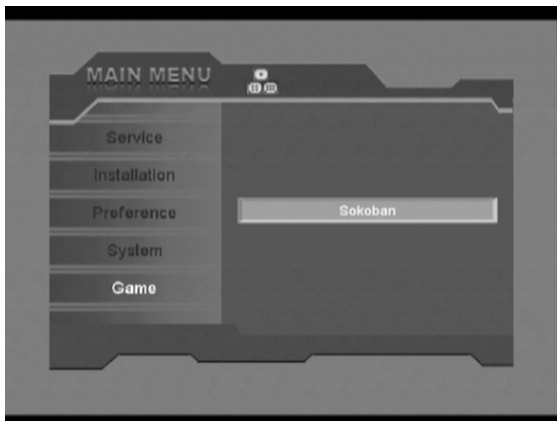
Upgrade Data & Default

Upgrade All

Upgrade OTA (Optional)

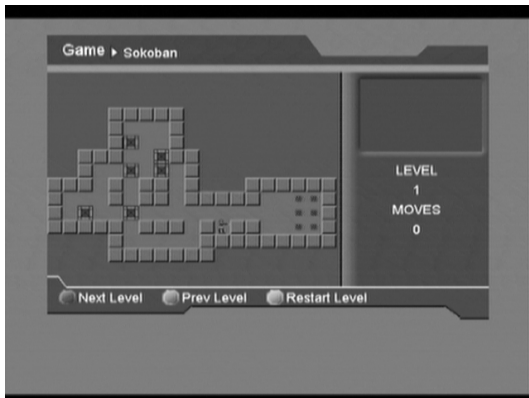


12.Game



Receiver has one game for you. Please enjoy it.

Sokoban



14. Trouble Shooting

If you suspect there is a fault with your receiver, please check the following trouble shooting guide before calling authorized service agent.

Warning! Under no circumstances attempt to repair the receiver yourself. Tampering with the receiver may result in fatal electric shock and will invalidate your warranty.

Symptom	Possible cause
Settings you made in the menu have not change	The receiver lost power before being able to enter into standby mode Some of the Settings saved by user can be deleted partly or fully
No signal	The level of signal is weak LNB is out of order The cable from the LNB is incorrectly Connected (short circuit or open circuit) The position of dish is aligned incorrectly
Receiver is on but no picture or sound except the following messages (NO TV program)	Channel is not available Channel is scramble
Receiver not responding to remote control unit	RCU batteries are dead or inserted incorrectly The RCU is pointing toward wrong direction
Poor picture Quality	The level of Signal strength is low
No sound	RCA cable is connected incorrectly The Volume level is low Muting function is active
No display on the LED Display Panel	The power cord is not plugged in correctly.
No picture on the screen	Receiver is in Standby mode RCA Jack is not connected firmly to the video output port of television Incorrect channel or video output is selected on television Brightness level of your TV set is incorrectly defined

15. Specifications

Satellite specification

System standard	Fully MPEGII/DVB Compliant
Channel Storage	Max.4000 TV and Radio Channels totally
Input Frequency	950~2150Mhz
RF Input level	-65~-25dBm
LNB Control	DiSEqC1.0/1.2
LNB Power	13V/18V (Max, 500mA)
LNB tone switch	22KHZ
Waveform	QPSK (SCPC, MCPC capable)
Symbol rate	2~45Mbps

Terrestrial specification (optional)

System standard	Fully MPEGII/DVB Compliant
Input Frequency	170-230MHz CH5-CH12, 470-860MHZ CH21-CH69
RF Input level	-87~-20dBm
Antenna power	5V/50mA max
Demodulation	COFDM 2K/8K
Number of carriers	1705/6817
Constellation	QPSK, 16QAM, 64QAM
Guard Inter Val	1/4, 1/8, 1/16, 1/32
FEC Decoder	1/2, 2/3, 3/4, 5/6 i 7/8, k=7

A/V Mode

Video format	MPEG-II Main profile/Main level
Audio format	MPEG-II layer I&II
Aspect Ratio	16:9, 4:3
Audio sampling rate	32,44.1, 48kHz
Audio Type	Mono Dual Mono, Stereo, Joint stereo
Graphic display	720x576(PAL), 720x480(NTSC)

Microprocessor & Memories

Processor	200 MIPS based CPU
RAM	64Mbits
FLASH	16Mbits

Power & Environment Condition

Supply Voltage	Free Voltage (100~250V AC, 50/60Hz)
Supply Power	Max.30W

Physical Specification

LED display	4Digits
Weight	2.0Kg
Dimensions	300(W) x 235(D) x 65(H)mm

Connection

Satellite IF input	F-type (Digital)
Satellite IF loop out	950-2150MHZ
RS232	9 way D Rs232 DCE serial port
Scart	TV/VCR
Video	Composite Video I/O, RGB, CVBS
Audio	Audio left, Audio right
Control Output	0/12V out
Modulator	UHF CH 21-69 Adjustable (Optional)

Specification is subject to change without notice.